

# Call for Participation

## VIB Hasenheide FDS Round-Robin Study – Stage 1

The **Verein zur Förderung von Ingenieurmethoden im Brandschutz e. V.** (VIB) invites interested participants to take part in a **round-robin study on fire modelling with the Fire Dynamics Simulator (FDS)**.

The aim of the study is to investigate the variability of FDS predictions for a full-scale fire test setup. The quantities considered include smoke transport, thermal conditions, optical extinction, smoke alarm actuation and the resulting assessment of tenability.

The round-robin study is based on pool fire experiments previously conducted in a vacant residential building in Leipzig, Germany. For the simulation, participants will be provided with a common scenario description, geometry, boundary conditions, measurement locations, an FDS template and an averaged and smoothed fuel mass history derived from replicate tests.

Stage 1 is conducted as a **semi-blind prediction exercise**. The experimental temperature, extinction and smoke alarm data will remain undisclosed until the submission freeze.

Key modelling choices remain open and must be documented, including mesh resolution, fire source specification, fuel model, soot yield, radiative fraction, wall boundary conditions, leakage assumptions and criteria for the tenability assessment.

Each planned submission will receive a separate anonymous participant ID. Multiple submissions from the same organisation or working group are possible.

Registration is by email to: [hasenheide@bcl-leipzig.de](mailto:hasenheide@bcl-leipzig.de)

Preliminary schedule: registration opens on 10 May 2026, registration deadline 30 June 2026, kick-off after the registration deadline, simulation phase until 30 September 2026, submission freeze on 30 September 2026. Evaluation, workshop and open calculation (stage 2) will follow afterwards.

The evaluation will be anonymised. The aim is the joint technical interpretation of the results, not a ranking of individual participants. For a later scientific publication, co-authorship for active participants is intended, provided that the usual authorship criteria are met.

**Manuel Osburg**, VIB Executive Board

**Prof. Lukas Arnold**, VIB Scientific Advisory Board

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